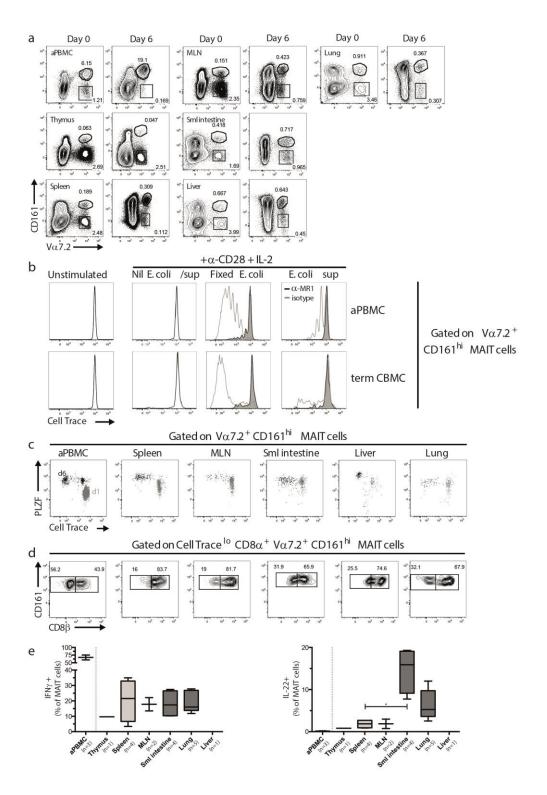


**Supplementary Figure 1.** (a) Gating strategy to identify MAIT cells in foetal tissues. A representative FACS plot of foetal lung tissues is shown. (b) Distribution of CD8<sup>+</sup>, CD4<sup>+</sup> and DN fetal MAIT cell subsets in adult (a) PBMC (n=10) and foetal thymus (n=8), spleen (n=15), mesenteric lymph node (MLN) (n=8), small intestine (n=14), liver (n=9), and lung (n=12). Box and whisker plot shows median, IQR and the 10<sup>th</sup> to 90<sup>th</sup> percentile. \* p<0.05, \*\* p<0.01, \*\*\* p<0.001 (Kruskal-Wallis ANOVA followed by Dunn's post-hoc test).



**Supplementary Figure 2.** (a) Comparison of foetal MAIT cell frequency after 6 days *in vitro* stimulation with *E. coli* and IL-2. (b) MAIT cell proliferation following *E. coli* stimulation of adult

PBMC or full-term foetal cord blood mononuclear cells (CBMC) is MR1-dependent. (**c**) Foetal MAIT cell proliferation following PHA/IL-2 stimulation. (**d**) The proportion of CD8αα and CD8αβ foetal MAIT cells that have proliferated following 6 days stimulation with *E. coli* and IL-2. (**e**) The proportion of IFNγ (left) and IL-22 (right) production in adult (a) PBMC (n=3) and foetal thymus (n=1), spleen (n=4), mesenteric lymph node (MLN) (n=2), small intestine (n=4), liver (n=1), and lung (n=5).following 6 hour PMA stimulation. Representative FACS plots are shown. Box and whisker plot shows median, IQR and the 10<sup>th</sup> to 90<sup>th</sup> percentile. \* p<0.05 (Kruskal-Wallis ANOVA followed by Dunn's post-hoc test).